I. Proximal humeral anatomy is variable (Fig. 19)

A. Radius of curvature (RC) 20mm–30mm

B. Head height (HH) = 3/4 (RC)

C. Head shaft angle (HSA) 30°-55°

D. Retroversion spans an arc of 50°

E. Offset (OS) in both A/P and M/L dimensions

F. Consistent with respect to:

    1. Surface Arc (SA) 150°-160°

    2. Head to tuberosity height (HT) < 1cm

(Fig. 19)

45

ARCUACS / TU URSUER (PRIOR ART)

Express Mailing No.: ET161052826US
Inventor: Eugene M. Wolf, MD   ...le: Facile Total Shoulder Arthroplasty Apparatus and Met...
Docket No.: EWLF-1230   ...ney: Andrew V. Smith
Page 2 of 14   ...rra Patent Group, Ltd.
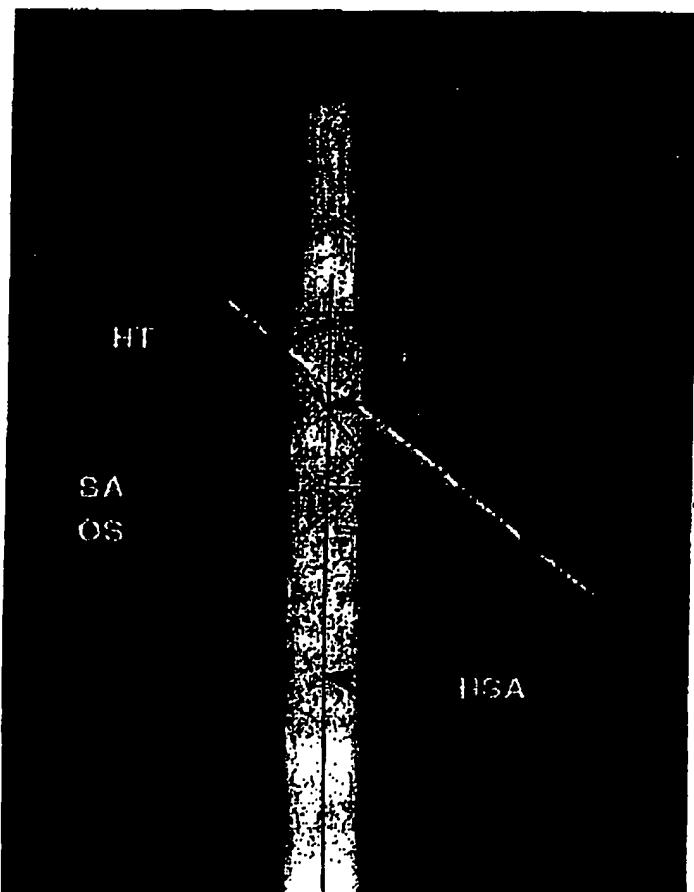
II.   Prosthetic geometry differs from normal anatomy (Fig. 16)

A. Head sits on a stem
B. Head- stem junction
C. Stem head angle (SHA) usually fixed
D. Prosthetic head margins
E. Metaphyseal shape/fins
F. Stem shape/length

Fig. 16

(PRIOR ART)
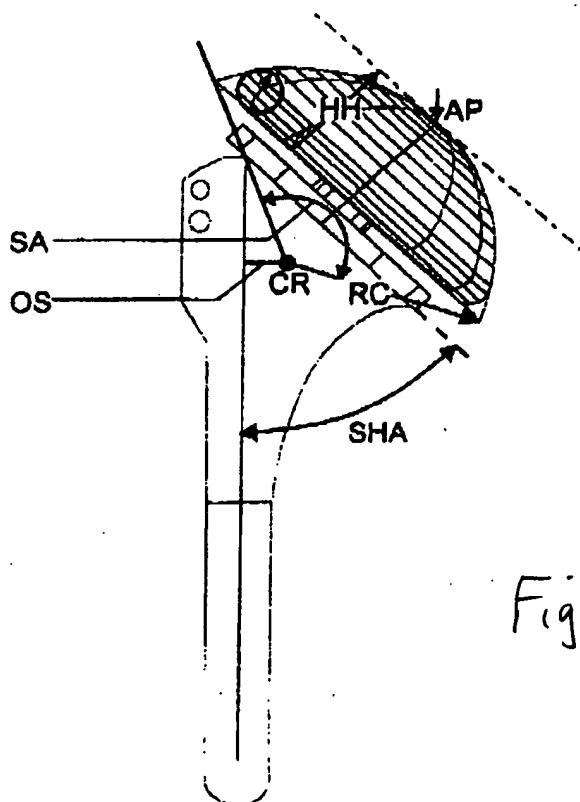
...: CR – center of rotation, AP – center of articular surface (articulation point).
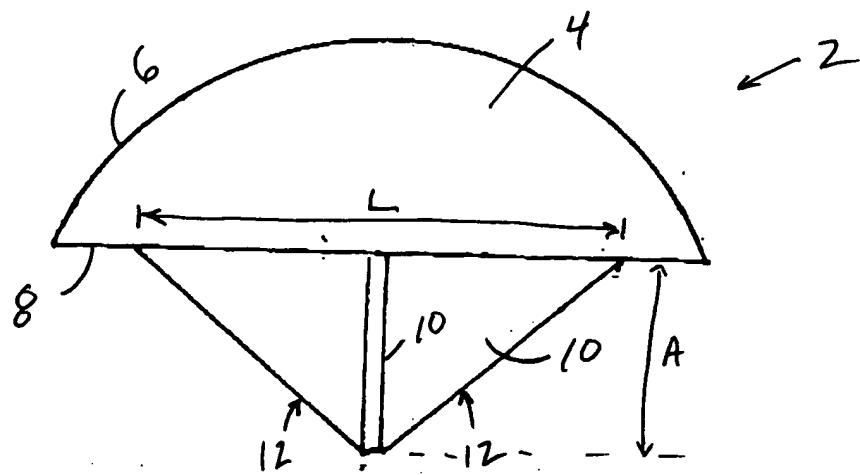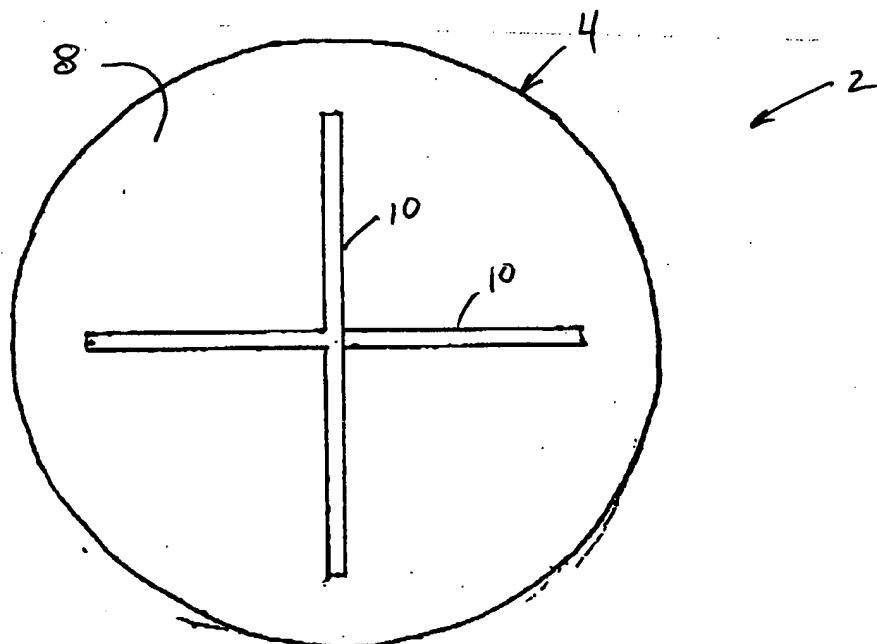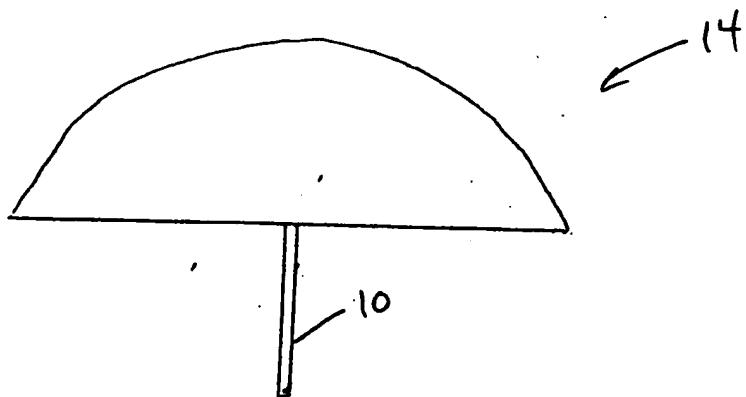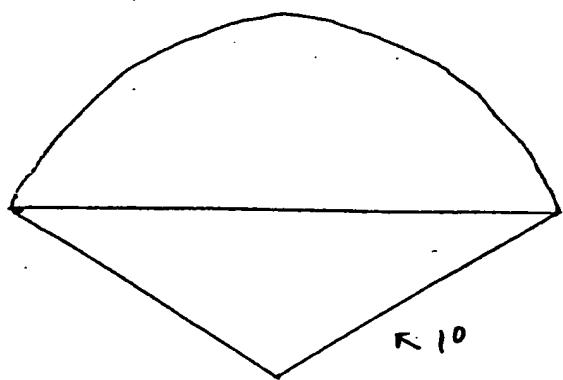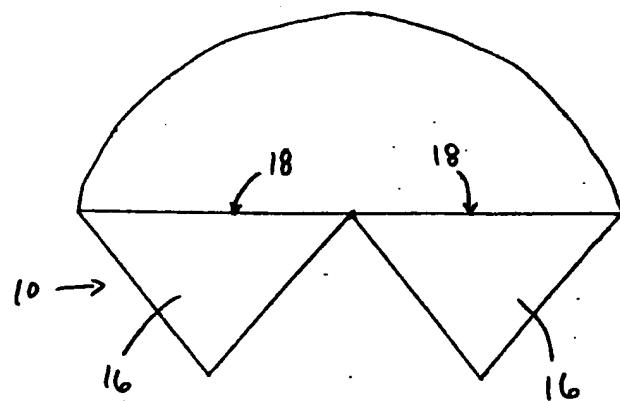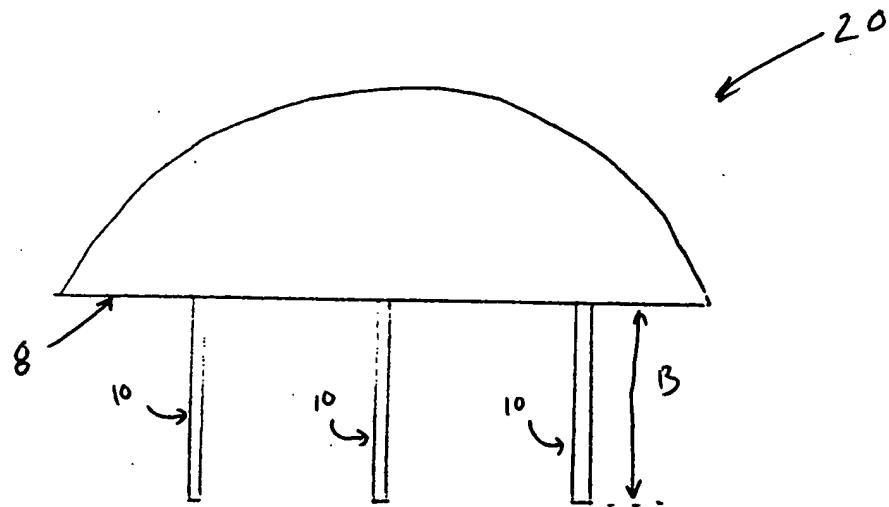
ADDUCTIS/TO VR OU ER

Fig. 2a

Fig. 2b

Fig. 3a

Fig. 3b

Fig. 3c

20

8

10   10   10

B

Fig. 4a

20

8

10   O

22

10   10

O   C   O

Fig. 4b

Fig. 5a

Fig. 5b

Fig. 5c

24

10

Fig. 5d

24

10

16   16

Fig. 5e

26

Fig. 6a

26   26

28

Fig. 6b

2, 20, 24

Fig. 6c

26   2, 20, 24

28

Fig. 6d

Fig. 7a

Fig. 7b

22

2

32

8, 26

34

32

31

34

10

10

28

29
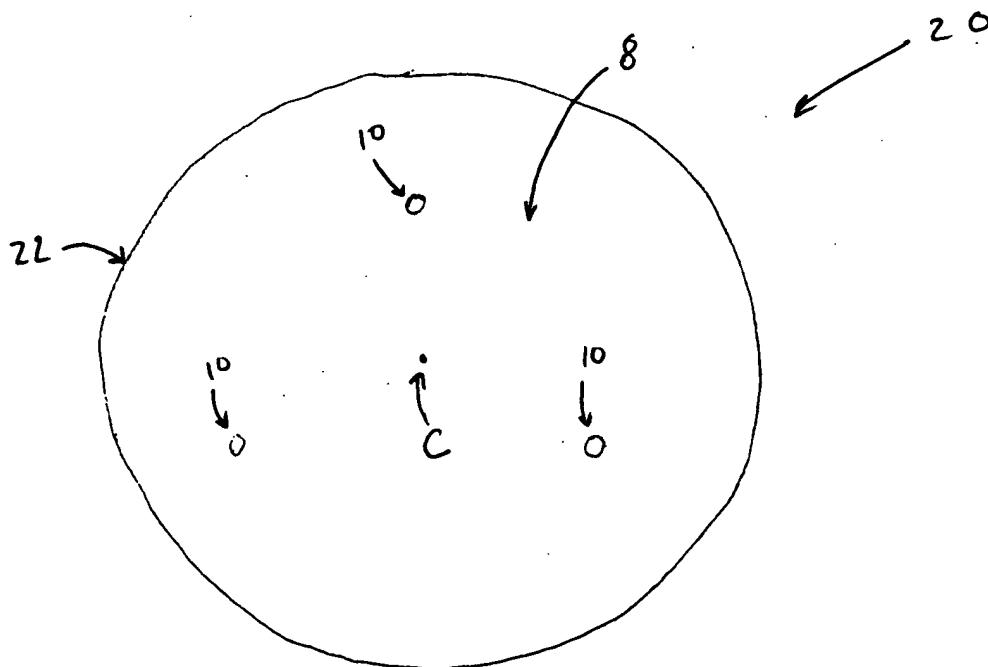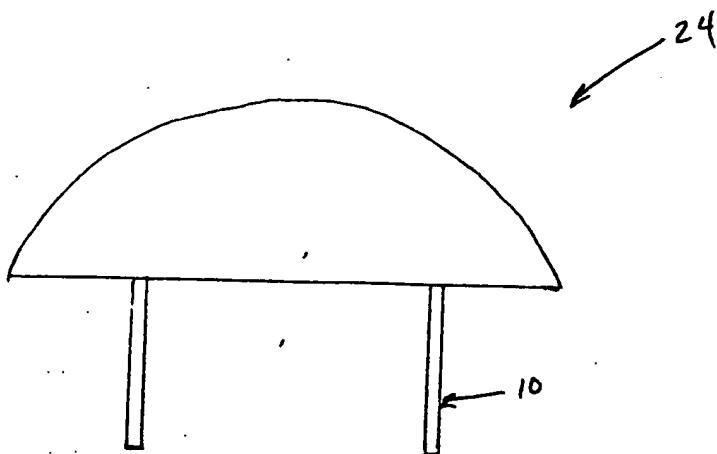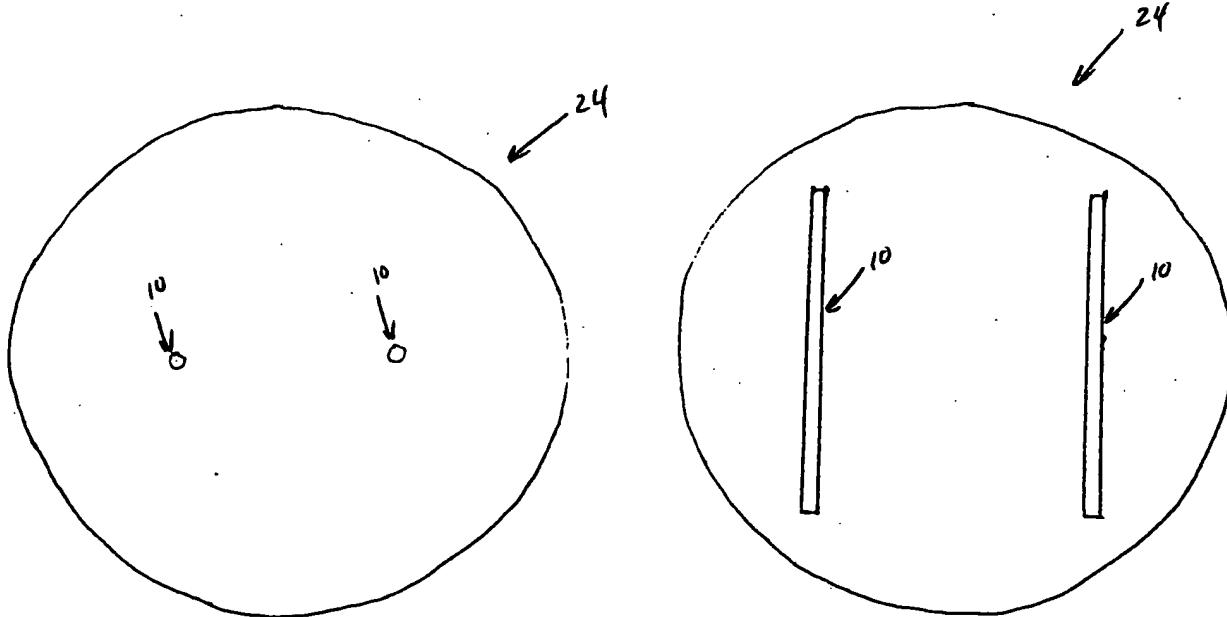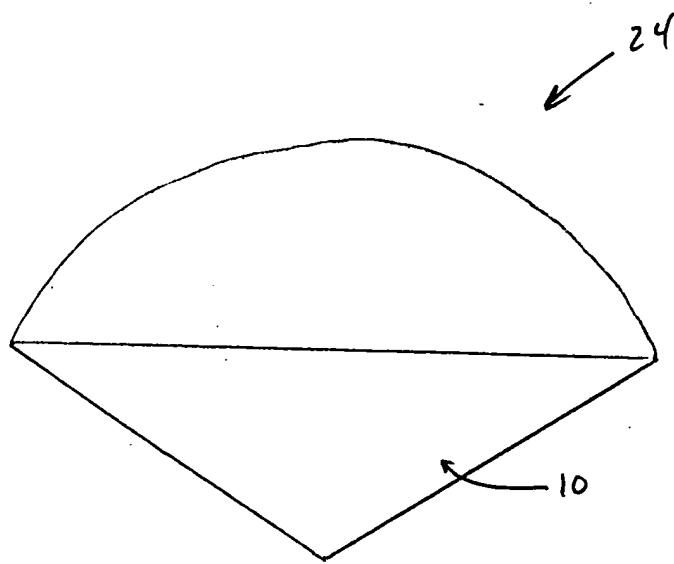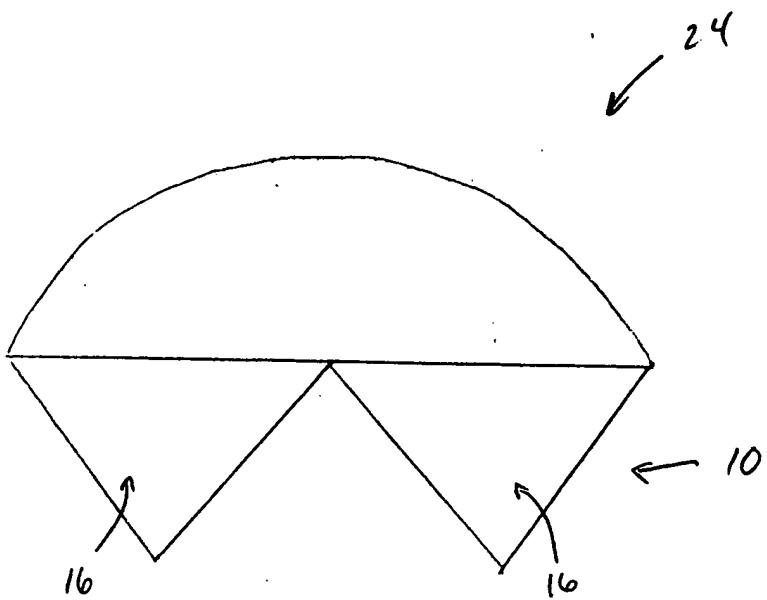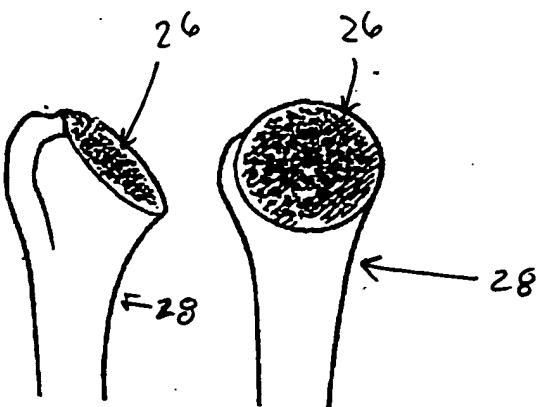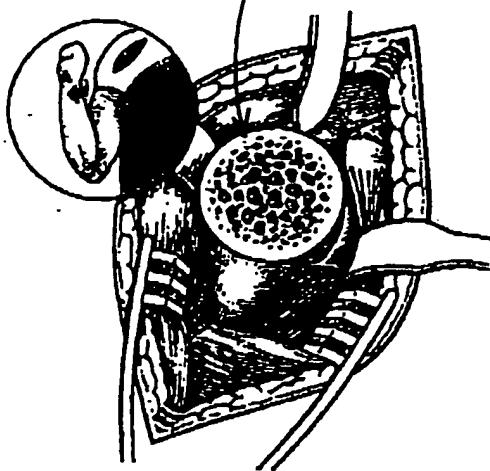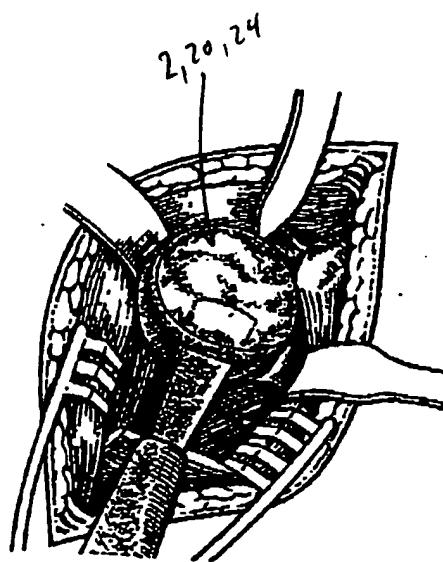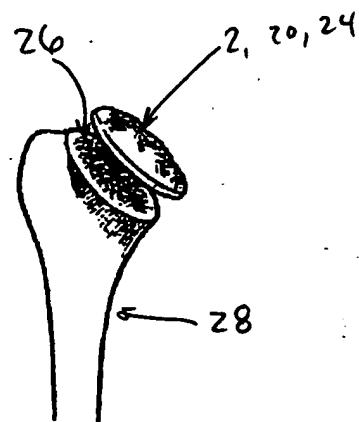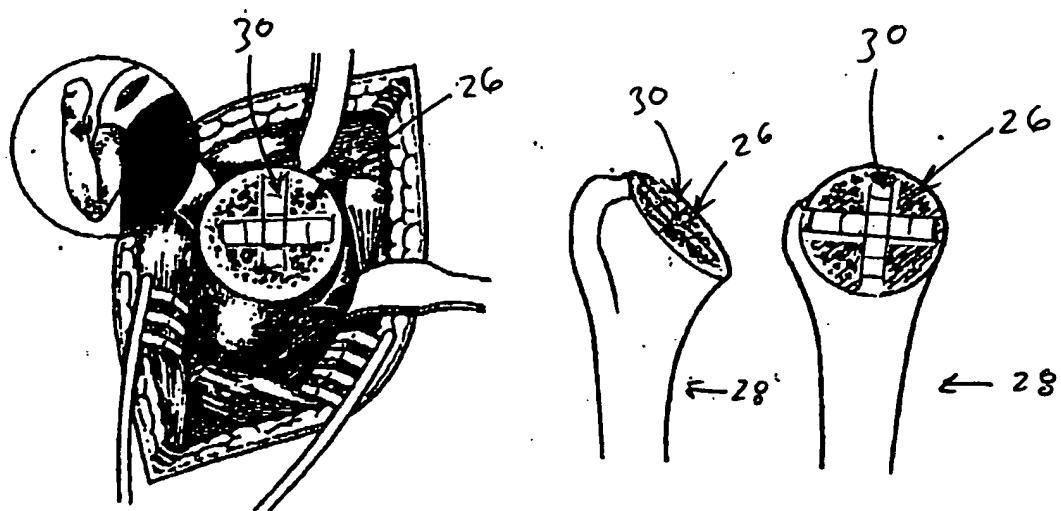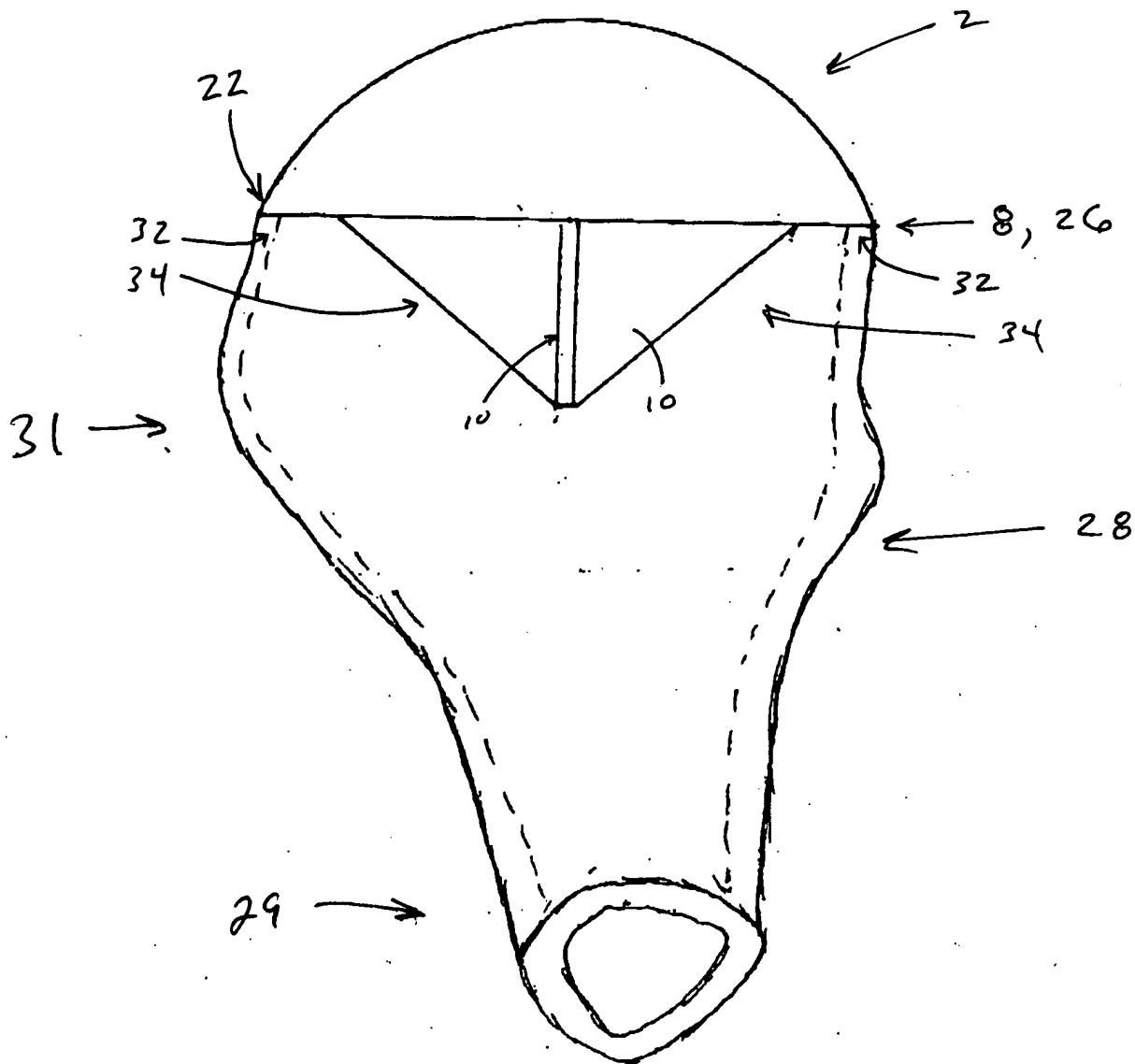
Fig. 8a
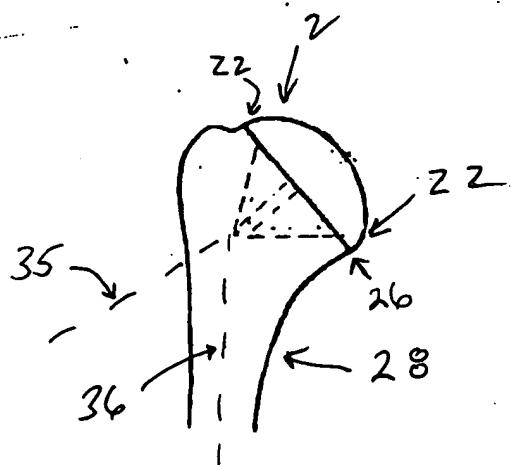
Fig. 8b

Fig. 8c

New supero-lateral approach

Surgical Exposures in Orthopaedics: The Anatomic Approach

deep
incision

Fig. 9

slim
incise

Trapezius
Spine of scapula
Acromion
Posterior deltoid
Lateral deltoid
Infraspinatus
Teres minor
Teres major
Latissimus dorsi
Lateral head of triceps
Clavicle
Pectoralis major
Anterior deltoid
Biceps

38

Fig. 10a

40

42 →

38

← 28

Fig. 10b

40

38

26 →

← 28
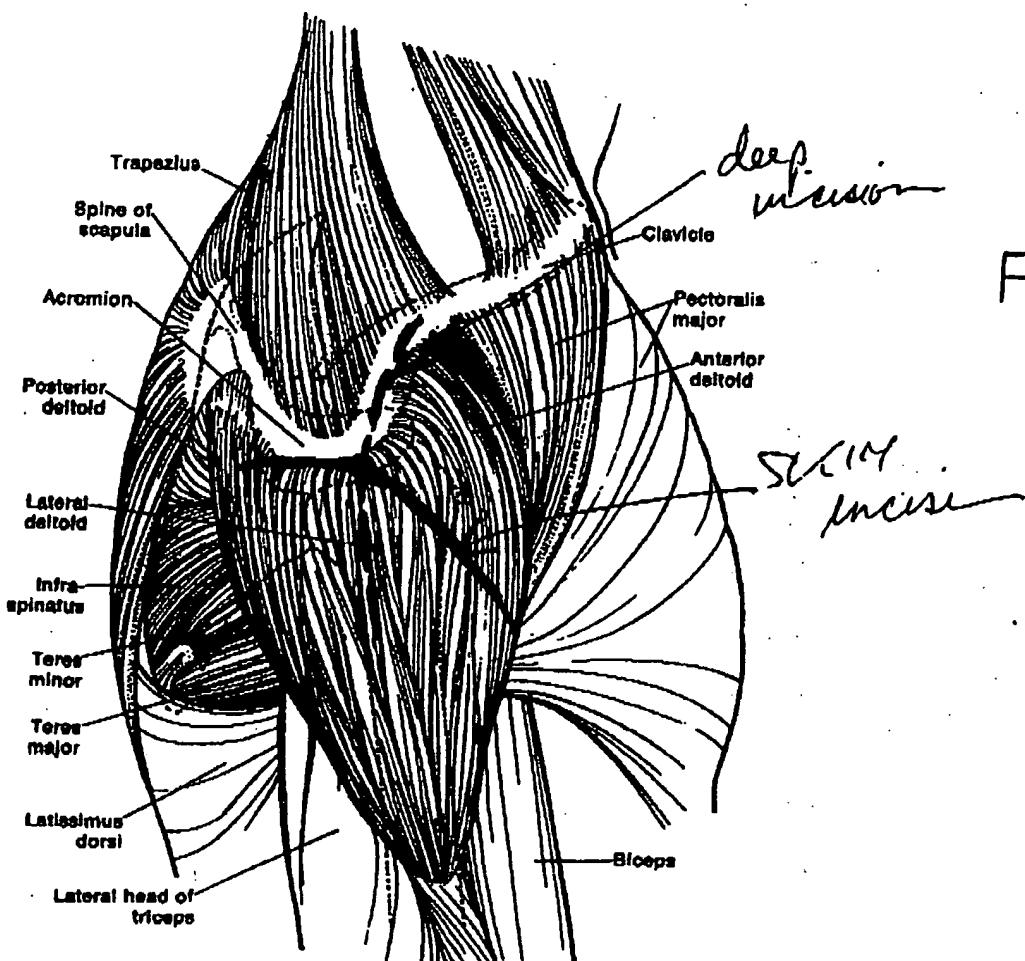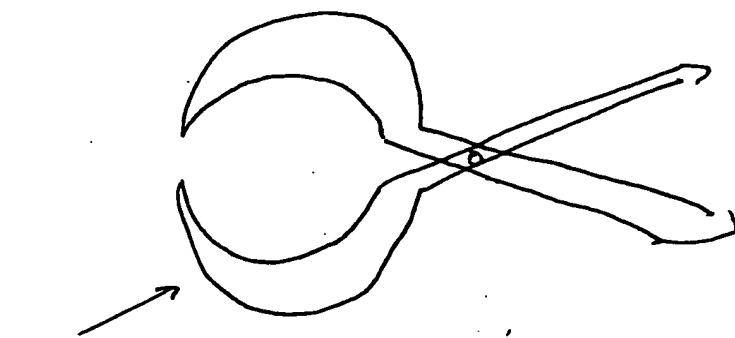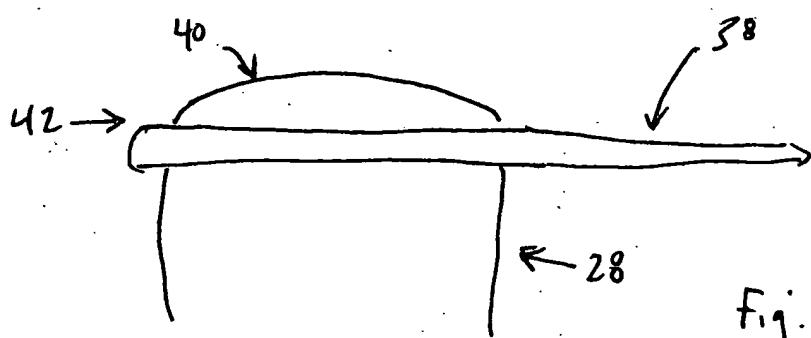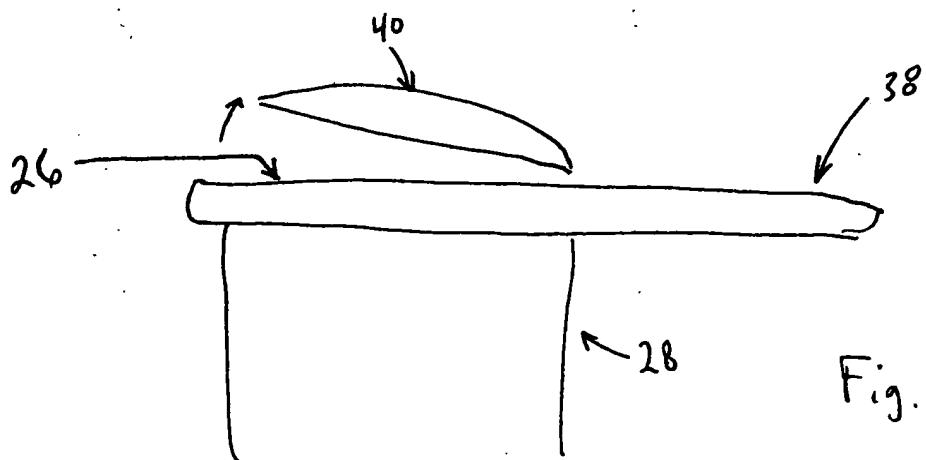
Fig. 10c

GLENOID VERSION GUIDE

avoids this:

Anterior

Posterior

Fig 11b

Subscapularis

capsule

← 44

Fig. 11a